CLAIMS:

(currently amended) A method of manufacturing comprising:

defining a cavity between an inner mold comprising a fugitive material portion and an outer mold;

casting a layer of ceramic insulating material within the cavity; removing the outer mold:

performing a mechanical process on the layer of ceramic insulating material while the inner mold remains in place for mechanically supporting the layer of ceramic insulating material: and

removing the fugitive material and removing the inner mold:

wherein the step of performing a mechanical process comprises machining the layer of ceramic insulating material to a predetermined thickness.

- (original) The method of claim 1, further comprising applying a layer of ceramic matrix composite material to the layer of ceramic insulating material prior to the step of removing the fugitive material and removing the inner mold.
 - 3. (original) The method of claim 2, further comprising:

removing the inner mold after the step of applying a layer of ceramic matrix composite material; and

performing a mechanical process on an inside surface of the layer of ceramic insulating material.

- (cancelled).
- 5. (original) The method of claim 1, wherein the cavity is defined to have a thickness dimension selected to facilitate the step of casting, and wherein the step of performing a mechanical process comprises machining an outer surface portion of the layer of ceramic insulating material to reduce a thickness dimension of the layer of ceramic insulating material to less than the thickness dimension of the cavity.

- (original) The method of claim 1, wherein the inner mold defines a net shape desired for the layer of ceramic insulating material.
- (original) The method of claim 1, further comprising at least partially curing the layer of ceramic insulating material prior to removing the inner mold.
- 8. (currently amended) The method of claim 1, further comprising:

 <u>method of manufacturing comprising:</u>

 <u>defining a cavity between an inner mold comprising a fugitive material portion</u>

and an outer mold;

casting a layer of ceramic insulating material within the cavity;

removing the outer mold:

performing a mechanical process on the layer of ceramic insulating material while the inner mold remains in place for mechanically supporting the layer of ceramic insulating material;

removing the fugitive material and removing the inner mold;

at least partially curing the layer of ceramic insulating material after the inner mold has been removed; and

installing a second inner mold comprising a fugitive material portion for supporting the ceramic insulating material during a subsequent process step.

- (original) The method of claim 8, wherein the fugitive material portion of the inner mold used during the step of casting comprises a material different from the fugitive material portion of the second inner mold.
- (original) The method of claim 8, further comprising applying a layer of ceramic matrix composite material to the layer of ceramic insulating material after the second inner mold is installed.

11. (original) A method of manufacturing a gas turbine component comprising a ceramic matrix composite material member defining a passageway and a layer of ceramic insulating material protecting the ceramic matrix composite member from high temperature gas passing through the passageway, the method comprising:

defining an annular cavity having a first thickness dimension between an inner mold and an outer mold;

casting ceramic insulating material within the cavity to have a first thickness dimension:

removing the outer mold;

removing a portion of the ceramic insulating material to reduce the ceramic insulating material to a second thickness dimension smaller than the first thickness dimension while the inner mold remains in place mechanically supporting the ceramic insulating material;

forming a layer of ceramic matrix composite material on an outer surface of the ceramic insulating material: and

removing the inner mold.

- (original) The method of claim 11, further comprising: forming the inner mold to have a fugitive material portion; and transforming the fugitive material portion prior to the step of removing the inner mold.
- 13. (original) The method of claim 11, further comprising at least partially curing the ceramic insulating material while the inner mold remains in place prior to the step of removing a portion of the ceramic insulating material.

14. (original) The method of claim 11, further comprising: performing the step of defining an annular cavity using a first inner mold; removing the first inner mold after the step of casting;

at least partially curing the ceramic insulating material after the step of removing the first inner mold; and

installing a second inner mold for supporting the ceramic insulating material prior to the step of removing a portion of the ceramic insulating material.

- 15. (original) The method of claim 14, further comprising forming the second inner mold of a material different than a material of the first inner mold
- 16. (original) The method of claim 11, further comprising performing a mechanical process on an inside surface of the ceramic insulating material after the step of removing the inner mold.
- (original) The method of claim 11, further comprising forming the inner mold to have a net shape desired for the passageway.
- 18. (original) The method of claim 11, further comprising forming the first thickness dimension to be at least 15 mm and removing a sufficient portion of the ceramic insulating material to reduce the ceramic insulating material to a thickness of 3-8 mm while the inner mold remains in place.